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 TI Method and apparatus for manufacturing building panels from calcium silicate  
 IN Stellmach, Winfried  
 PA CSP-Chemie Entwicklungsgesellschaft m.b.H., Fed. Rep. Ger.  
 SO Ger. Offen., 5 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM C04B028-20  
 ICS B28B005-02; B28B003-00  
 CC 58-4 (Cement, Concrete, and Related Building Materials)  
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PI	DE 3641823	A1	19880616	DE 1986-3641823	19861206
	EP 270797	A1	19880615	EP 1987-115641	19871024
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AT	84293	T	19930115	AT 1987-115641	19871024
ES	2036557	T3	19930601	ES 1987-115641	19871024
DK	8706389	A	19880607	DK 1987-6389	19871204
PRAI	DE 1986-3641823	A	19861206		
	EP 1987-115641	A	19871024		

CLASS  
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

DE	3641823	ICM	C04B028-20		
		ICS	B28B005-02; B28B003-00		
		IPCI	C04B0028-20 [ICM, 4]; C04B0028-00 [ICM, 4,C*]; B28B0005-02 [ICS, 4]; B28B0005-00 [ICS, 4,C*]; B28B0003-00 [ICS, 4]		
		IPCR	C04B0040-02 [I,C*]; C04B0040-02 [I,A]		
		ECLA	C04B040/02		
EP	270797	IPCI	C04B0040-02 [ICM, 4]		
		IPCR	C04B0040-02 [I,C*]; C04B0040-02 [I,A]		
		ECLA	C04B040/02		
AT	84293	IPCI	C04B0040-02 [ICM, 5]		
		IPCR	C04B0040-02 [I,C*]; C04B0040-02 [I,A]		
ES	2036557	IPCI	C04B0040-02 [ICM, 4]		
		IPCR	C04B0040-02 [I,C*]; C04B0040-02 [I,A]		
		ECLA	C04B040/02		
DK	8706389	IPCI	C04B0028-18 [ICM, 4]; C04B0028-00 [ICM, 4,C*]		
		IPCR	C04B0040-02 [I,C*]; C04B0040-02 [I,A]		
		ECLA	C04B040/02		
AB	Ca silicate building panels are manufactured by conversion of SiO <sub>2</sub> or a substance containing SiO <sub>2</sub> with CaO or a substance containing CaO in the presence				
	of water, dewatering the Ca silicate slurry, autoclave-hardening, and drying. An aqueous solution of the reactants for Ca silicate hydrate formation and gelling is used, and allowed to stand undisturbed until the end of gel formation, i.e., stabilization, then pressed to the desired thickness, rolled, dewatered, steam-hardened, and dried. In the corresponding apparatus, the components are mixed on a water-permeable conveyor belt with a length before the subsequent filter press designed to provide the necessary dwell time for gel formation at a given feed rate. A typical starting mixture of finely ground quartz				

meal 30, amorphous silicic acid 12 (as SiO<sub>2</sub>), white lime 38, finely ground Ca silicate 13, cellulose fibers 4, and alkali-resistant glass fibers 3 weight% gave plates with compressive strength 3.9 and bending strength 1.3 N/mm<sup>2</sup>, shrinkage at 750° 1.0 and at 1000° 1.2%, and heat conductivity 0.102 W/m-K.

ST calcium silicate plate manuf; gelling calcium silicate hydrate

IT Building materials  
(panels, calcium silicate, manufacture of, calcium silicate hydrate formation and gelling for)

IT 1344-96-3P, Calcium silicate hydrate  
RL: PREP (Preparation)  
(formation and gelling of, in calcium silicate panel manufacture)

IT 1344-95-2P, Calcium silicate